

PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE INSTALLATION OF A BATTERY BACK-UP SYSTEM TO THE EXISTING TRAFFIC SIGNAL AT THE INTERSECTION OF MD-2 (GOV. RITCHIE HIGHWAY) AND MD-270 (FURNACE BRANCH ROAD) IN ANNE ARUNDEL COUNTY. MD-2 (GOV. RITCHIE HIGHWAY) IS ASSUMED TO RUN IN A NORTH SOUTH DIRECTION.

INTERSECTION OPERATION

THE EXISTING SYSTEM READY BASE MOUNTED CABINET AND CONTROLLER WITH ALL NECESSARY EQUIPMENT WILL BE UTILIZED AT THE INTERSECTION. THE INTERSECTION OPERATE IN A FULLY ACTUATED MODE USING 6 NEMA PHASES. MAINLINE MD-2 (GOV. RITCHIE HIGHWAY) OPERATES CONCURRENTLY. EXCLUSIVE LEFT TURN PHASING IS PROVIDED FOR THE NORTH AND SOUTHBOUND MD-2 APPROACHES. MD-270 (FURNACE BRANCH ROAD) OPERATES AS A SIDE STREET SPLIT. THIS INTERSECTION IS PART OF THE MD-2 INTERCONNECT SIGNAL SYSTEM.

VIDEO CAMERAS SHALL PROVIDE THE PRESENCE DETECTION, STREET LIGHTING AND STREET NAME SIGNS SHALL BE UPDATED TO CURRENT STANDARDS.

PROJECT CONTACTS:

1. THE FOLLOWING CONTACT PERSONS FOR THIS PROJECT ARE AS FOLLOWS:

KIMBERLY TRAN, ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: (410) 841-1003

JAMES FOLDEN, ASSISTANT DISTRICT ENGINEER - CONSTRUCTION
PHONE: (410) 841-1031

JOHN MAYS, ASSISTANT DISTRICT ENGINEER - MAINTENANCE
PHONE: (410) 841-1013

MIKE HUBER, UTILITY ENGINEER
PHONE: (410) 787-7652

MR. RICHARD DAFF, SR. CHIEF TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7630

MR. EDWARD RODENHIZER, CHIEF SIGNAL OPERATIONS SECT.
PHONE: (410) 787-7652

MR. SONNY BAILEY, CHIEF SIGN OPERATIONS SECT.
PHONE: (410) 787-7676

THE POWER COMPANY REPRESENTATIVE:
BALTIMORE GAS AND ELECTRIC
7317 PARKWAY DRIVE SOUTH
HANOVER, MARYLAND 21076
(410) 850-4620

2. MAINTENANCE OF TRAFFIC WILL BE HANDLED BY THE CONTRACTOR UTILIZING THE STANDARD PLATES FOR TRAFFIC CONTROL FROM SECTION MD 104.00 OF THE STANDARDS FOR HIGHWAYS & INCIDENTAL STRUCTURES.

EQUIPMENT LIST 'C'

C. ALL MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE CONTRACTOR

EQUIPMENT LIST 'A'

A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATION.

CATEGORY CODE NO.	DESCRIPTION	QUANTITY
	NONE	

EQUIPMENT LIST 'B'

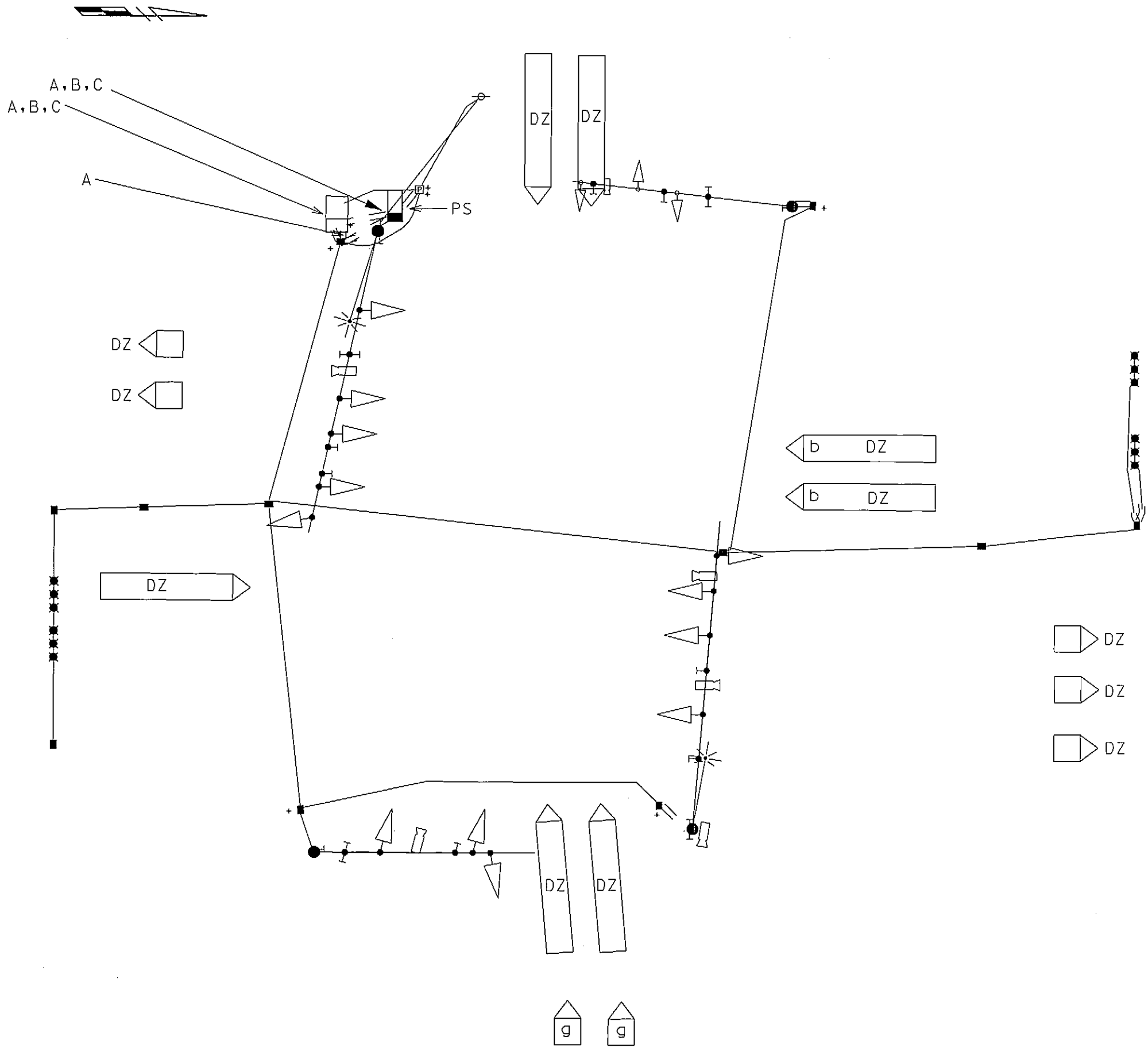
B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

ITEM NO.	DESCRIPTION	QUANTITY	UNIT
1001	MAINTENANCE OF TRAFFIC	1	EA
8013	F&I UNINTERRUPTABLE POWER SUPPLY IN A NEMA SIZE "5" CABINET	1	EA
8038	F&I 2" PVC CONDUIT - TRENCHED	30	LF
8042	F&I No. 6 STRANDED BARE COPPER GROUND WIRE	90	LF
8045	F&I 1- CONDUCTOR No. 8AWG	110	LF
8056	F&I 7- CONDUCTOR No. 14AWG	60	LF

PHASE CHART

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
(R)	(R)	(R)	(R)	(R)	(R)	(R)	(R)	(R)	(R)	(R)	(R)	(R)	(R)	(R)
(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)
(G)	(G)	(G)	(G)	(G)	(G)	(G)	(G)	(G)	(G)	(G)	(G)	(G)	(G)	(G)

Phase 1 & 5	< G -	< G -	R	R	< G -	< G -	< G -	R	R	R	R	R	R	R	R	R
1 & 5 Change	PHASE 1 & 5 MAY CHANGE TO PHASE 1 & 6, PHASE 2 & 5, OR PHASE 2 & 6															
Phase 1 & 6	< G -	< G -	G	G	< R -	< R -	< R -	R	R	R	R	R	R	R	R	R
1 & 6 Change	< Y -	< Y -	G	G	< R -	< R -	< R -	R	R	R	R	R	R	R	R	R
Phase 2 & 5	< R -	< R -	R	R	< G -	< G -	< G -	G	G	R	R	R	R	R	R	R
2 & 5 Change	< R -	< R -	R	R	< Y -	< Y -	< Y -	G	G	R	R	R	R	R	R	R
Phase 2 & 6	< R -	< R -	G	G	< R -	< R -	< R -	G	G	R	R	R	R	R	R	R
2 & 6 Change	< R -	< R -	Y	Y	< R -	< R -	< R -	Y	Y	R	R	R	R	R	R	R
Phase 3	< R -	< R -	R	R	< R -	< R -	< R -	R	R	< G -	< G -	G	R	R	R	R
3 Change	< R -	< R -	R	R	< R -	< R -	< R -	R	R	Y	Y	Y	R	R	R	R
Phase 4	< R -	< R -	R	R	< R -	< R -	< R -	R	R	R	R	R	< G -	< G -	G	Y
4 Change	< R -	< R -	R	R	< R -	< R -	< R -	R	R	R	R	R	Y	Y	Y	Y
Fashing Operation	< FL/R -	< FL/R -	FL/Y	FL/Y	< FL/R -	< FL/R -	< FL/R -	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R



WIRING KEY

- A - 7 CONDUCTOR NO. 14 AWG ELECTRIC CABLE
B - NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
C - 1 CONDUCTOR NO. 8 AWG-THHN/THWN ELECTRIC CABLE



STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

MD 2 (GOVERNOR RITCHIE HWY.)
AT MD 270 (FURNACE BRANCH RD.)

APPROVALS	REVISIONS	GENERAL INFORMATION PLAN	
TEAM LEADER		SCALE	NONE
ASST. DIR. CHIEF		ADVERTISED DATE	9-10-2011
DIVISION CHIEF		CONTRACT NO.	XY2245185
OFFICE DIRECTOR		DESIGNED BY	FJA
		COUNTY	ANNE ARUNDEL
		DRAWN BY	FJA
		LOGMILE	02000238.04
		CHECKED BY	
		TMS NO.	J661
		F.A.P. NO.	
		TOD NO.	
		TS NO. 7616-G1	
		DRAWING	1 OF 2
		SHEET NO.	2 OF 2

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